



Department of IOT & Robotics Engineering

Program in IOT & Robotics Engineering

Lab report on project requirements.

Project title:

Job Finder Management System

Course Code: ICT 4354

Course Title: Software Engineering Lab

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Project Title: Job Finder Management System.

Functional requirements:

1. **User registration:** the system should allow job seekers and employers to create accounts using email address.
2. **User login:** registered should be able to login their credentials
3. **Job posting:** employers should be able to post new job listing with details like job title, location, salary.
4. **Job search:** job seekers be able to search for job using filters like keywords location, job type(half time or full time)
5. **Resume upload:** job seekers should be able to upload their resumes and edit their profile to include skills, experience.

6. **Job application:** job seekers should be able to apply for job directly through the system and track their application
7. **Notification system:** the system should notify job seekers and employers about their important actions.
8. **Job bookmarking:** job seekers should be able to save or bookmark job for their future reference.
9. **Application tracking:** employers should be able to viewport and manage the application.
10. **Employer profile:** employer should be able to create and manage company profile.
11. **Job recommendation:** the system should recommend job to job seekers based on their profile, skills and search history.
12. **Admin panel:** admin should be able to manage users, review job posting and ensure the smooth running of the platform.

Non functional requirements:

1. **Performance:** the system should load pages and process job search and application within 3 seconds for an optional user experience.
2. **Scalability:** the system should handle increasing numbers of job seekers and job posting.
3. **Security:** the system should ensure user data like personal information and resume.
4. **Availability:** the system should be available 99.9% of the time.
5. **Usability:** the user interface should be easy to navigate.
6. **Compatibility:** the system should recommend job to job seekers based on their profile, skills and search history.
7. **Backup and recovery:** the system should have regular data backups and recovery process in place to prevent data loss.
8. **Maintainability:** the system should be designed to allow for easy updates and bug fixes.
9. **Privacy:** the system should comply with data protection regulations.
10. **Responsiveness:** the system should provide a fast responsive design, automatically adjusting its buyout for different screen size.

System requirements:

Hardware requirements:

- Client device: Smartphones, tables, or PCs with internet access.
- Process: Minimum 1.5GHz dual-core CPU.
- RAM: Minimum 512 MB RAM for mobile devices, 512MB for desktop/laptops.
- Storage: 100MB free space required.
- Camera and microphone: access to functioning camera and microphone for video and audio communication.

Software requirements:

- Operating system: Android 5.0 and above for mobile devices. iOS 8.0 and above for Apple devices. Windows 7, MacOS 10.12, or linux based systems for desktops
- Visual studio code for backend and front end code writing or editing. Nodejs reacts environment setup.

Network requirements:

- Internet connections: a stable internet connection with a minimum bandwidth of 512 kbps for video conferencing.